



Insights

Fall 1998

College of Science

Alumni Newsletter

Vol. 7 Issue 1

MacMahon's Musings

I am happy to report that the new Widtsoe Chemistry Building is rising out of the ground. Until we began to see steel girders and concrete walls rising and heavy equipment being moved into the basement, the reality of this project was hard to comprehend. The early stages of construction seemed fraught with numerous problems associated with utility placement and we waited for months staring at huge holes in the ground.



Dean Jim MacMahon

As you may know by now, in about a year, as soon as the new Widtsoe is finished, the old building will be razed and construction of the Eccles Science Learning Center will be initiated. Of the \$6-7 million that this project requires, we have about \$4.5 million pledged. The \$4.5 million will complete the shell and interior finishes of the Learning Center. The additional funds are needed for the electronics, scientific equipment, and furnishings. If any of you have good ideas about foundations, individuals, or corporations that we might contact to help us with the last of the fundraising let me know.

This fall we moved from the quarter system to semesters. The transition was very smooth because of the hard work of the faculty. The students and faculty alike are split on whether the new system is better, the same, or worse than the old system. It will take a few years of experience to really know how we feel, but at least the pain is over.

As I write to you today we are having our first big snow. For awhile I thought we would be able to play tennis

MUSINGS...

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Scholarships Support Students, Enhance College

With nearly 1,900 students, the College of Science is constantly reminded of the role that private financial support for scholarships plays in helping to improve the educational experiences of our students. Some of our students are particularly fortunate to be the beneficiaries of contributions given to create new or enhance existing scholarships in the college. While each department has some scholarships available for their majors, there are a number of general scholarships for students in the college regardless of major. This issue of *Insights* is dedicated to discussing these more general, college-based scholarships. Future issues of the newsletter will highlight department scholarships.

With one year of education at Utah State University amounting to an estimated \$9,500 (including tuition, fees, room and board, personal expenses, supplies and books), the scholarship needs of our students have never been greater. In short, more qualified students are seeking scholarship assistance than there are scholarships to award. Given the learning benefits of maximizing research time in labs and conducting fieldwork, our students have difficulty finding jobs that allow them the time to participate fully in this kind of science education. As a result, College of Science students benefit greatly from gifts designated for scholarship support.

In 1998-99, 11 privately-funded general scholarships in the College of Science provide nearly \$61,000 in awards to selected students. This sum includes some \$46,000 of outright donor gifts and \$15,000 of investment earnings from eight scholarship endowments. These eight scholarship endowments expend only a percentage of their annual earnings to provide ongoing scholarship support, while the remaining earnings are plowed back into the fund as a hedge against the effect of inflation on the purchasing power of the fund over time. In contrast, outright donor gifts must be received annually to

"Dad would be so happy to know that in his name he is helping young students achieve their goal of an education in their chosen field of science."

—Dr. J. Keith Sorenson (BS '45) upon the creation of the Charles J. Sorenson Endowed Scholarship

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SCHOLARSHIPS

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***Widtsoe Update:** As winter closes in, the new Widtsoe Hall shows signs of real progress. No longer a muddy hole in the earth, the shape of this state-of-the-art facility is beginning to be seen in the skeletal structural frame.*

MUSINGS...

outside on New Year's Day or at least that Patty and I could fish without five layers of clothes as we did many years ago. The snow always reminds me of the holiday season and I want to wish all of you happy holidays. I am extremely grateful to you for increasing your support of the College by providing material for this newsletter and contributions to our various fundraising campaigns. We have come a long way in the last few years and we owe a lot of our progress to our loyal alumni, faculty, staff, and friends. I hope that we will make you ever more proud of your association with the College of Science next year.

Sincerely,

provide scholarship awards year after year.

Often referred to as "the gift that keeps on giving," an endowment is a perpetual fund whose earnings provide one or more annual scholarships. Every endowment in the college has its own history and reason for being established, but they all provide much-needed assistance to science students, both now and into the future. Many are established by family members to honor loved ones or by colleagues to honor a valued associate. When setting up a new scholarship and endowment, the donors and college together draft a simple statement of agreement governing the administration of the fund and outlining any donor-designated criteria for its award.

The 11 general scholarships housed in the College of Science are highlighted below. They exist as a result of either annual donor gifts or investment income generated from contributions given to establish or augment an endowed scholarship. Whether from annual donor gifts or from investment income, gifts for scholarships provide much-needed assistance to science students, both today and into the future.

The James E. Brown Endowed Scholarship memorializes a past chairman of the USU Institutional Council during a period of intense growth in the university's space program. Benefiting either a graduate or undergraduate student, the scholarship rotates annually among the Colleges of Business, Engineering, and Science. *This year's Brown Scholar is Joseph E. Babboni, a senior physics major from New York holding a 3.584 GPA.*

The Theodore M. Burton Endowed Scholarship recognizes the life and career of an outstanding USU chemistry professor who wrote the university's alma mater and was an LDS Church General Authority. Established with a gift from the LDS Church Foundation, the scholarship annually benefits exemplary majors within the college. *This year's Burton Scholar is James R. Balls, a junior chemistry major from Hyde Park, Utah, with a 3.774 GPA.*

The Oscar Wood Cooley Endowed Scholarship is awarded annually to an outstanding junior or senior science major. This scholarship was established by Mrs. Gwen Cooley in honor of the decades of assistance her father-in-law offered to students as a dedicated staff member of the Utah Agricultural College. Through this scholarship, the tradition of helping students that Mr. Cooley started in 1910 will be continued for the generations of students that follow him. *The 1998-99 Cooley Scholar is Carli Jean Connally, a senior from Highland, Utah, studying computer science and holding a 3.918 GPA.*

The College of Science Endowed Scholarship provides tuition plus \$500 and is renewable for up to four years for the incoming freshman student who scores highest on the College of Science/University Club exam. This endowed fund, now having a value of more than \$70,000, was initiated and continues to grow by virtue of gifts contributed by friends and alumni of the College of Science. Gifts to the college's Annual Fund Campaign make this scholarship a critical recruitment and retention tool that helps to attract and retain the best and brightest science students. *The current College of Science Scholars are Jason*

R. Douglas, a junior computer science major from Naperville, Illinois, with a 3.784 GPA; Nathan A. Cannon, a sophomore physics major from Idaho Falls, Idaho, holding a 3.935 GPA; and Ryan L. Robinson, a freshman computer science major from Salt Lake City, Utah, with a 3.749 GPA.

The Willard L. Eccles Foundation Graduate Fellowships are the most prestigious awards available to graduate students in the College of Science. Three \$15,000 fellowships are funded annually by the Willard L. Eccles Charitable Foundation and are designed to attract and retain the finest academic minds with a creative and ambitious approach to solving research problems. These fellowships honor the life of Willard L. Eccles while providing substantial support for promising graduate students. *The current Eccles Fellowship recipients are Timothy J. Nuttle (see related article on page 4), a PhD candidate in biology; Yarrow L. Axford, a master's candidate in geology; and Akashay Kumar Sreeramaju, a master's candidate in computer science.*

The Dr. Joseph E. Greaves Endowed Scholarship recognizes the life and career of an outstanding USU bacteriologist, alumnus, former dean, and family man. Established by his children, the Greaves Endowment provides annual scholarship support for junior, senior, or graduate students studying microbiology, biochemistry or a related field. *The 1998-99 Greaves Scholar is Katie Songer, a junior biology major with a liberal arts & sciences emphasis from Huntsville, Utah, with a 3.813 GPA.*

The Lawrence H. Piette Endowed Graduate Student Scholarship honors a former dean of the School of Graduate Studies at USU committed to improving the quality of graduate research. This annual scholarship benefits a second-year graduate student making outstanding progress in biochemistry, biophysics, or molecular biology. *The current Piette Scholar is Mariam Sluis, a PhD candidate in biochemistry from Atascadero, California, with a 3.215 GPA.*

The Questar Scholarship in the College of Science is provided to an outstanding science student majoring in computer science, geology, or other physical science. An annual gift from Questar Gas Co. and the Questar Educational Foundation makes this scholarship available to a deserving student. *This year's Questar Scholar in the College of Science is Matthew L. Huggins, a junior chemistry major from Layton, Utah, holding a 3.79 GPA.*

The Seely-Hinckley Scholarships in the College of Science provide two science students with aid equivalent to a full year's tuition at USU. The scholarships are designated to provide support to students of superior achievement who would otherwise be unable to attend, or who would be delayed in attending, the university. This ongoing scholarship program honors two outstanding Utah men, John H. Seely and Robert H. Hinckley. *The 1998-99 Seely-Hinckley Scholars in the College of Science are Tyler Lynn Christensen, a junior premed biology major with a 3.986 GPA from Logan, Utah; and Katherine Lambson Wood, a junior biology major from West Valley City, Utah, holding a 3.975 GPA.*

SCHOLARSHIPS
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1998 Eccles Fellow Named



Timothy Nuttle

Timothy Nuttle, a graduate student in the Department of Biology, has been named the 1998 Eccles Fellow, funded through a generous annual grant from the foundation. The Willard L. Eccles Foundation Fellowship seeks to attract the finest academic minds with a creative and ambitious approach to solving research problems. The fellowship is designed to allow the recipient to focus talents and time on graduate studies and thesis research projects.

Nuttle, whose field is wildlife ecology and management, chose to pursue doctoral study at Utah State University "because of faculty members active in the fields of population and community ecology." He is especially interested in mathematical modeling, plant population biology, and forest community ecology. These disciplines are directly related to his proposed doctoral dissertation project, research into the factors that influence the composition and assembly of ecological communities.

Interested in investigating the effects of alternative stable states, dispersal limitation, and invasion ecology on the assembly of plant communities, Nuttle intends to pursue his research in the context of restoration of hardwood bottomland ecosystems. This research is an outgrowth of his research assistantship in wildlife ecology at Mississippi State University, where he studied the effects of hardwood bottomland restoration on avian communities.

In the Mississippi Alluvial Valley, former agricultural land is being restored. The scale of this restoration effort is unprecedented, Nuttle says, and if successful will affect many regional ecological benefits, including improved water quality and diversified wildlife habitats. Nuttle presented the results of his research at several conferences and planning workshops, addressing the effectiveness of current restoration efforts at meeting bird habitat goals, the assessment of the conservation value of existing restoration sites relative to natural forests, and the spatial scale of bird habitat affinities in restoration sites and natural forest stands.

The issues Nuttle plans to investigate are, he says, currently of much interest in the scientific community as evidenced by numerous articles and special forums in recent issues of *Ecology* and other journals. Through his research, Nuttle hopes to infuse recent advances into current and future conservation and the restoration of perturbed ecosystems. ♦

SCHOLARSHIPS...

The Charles J. Sorenson Endowed Scholarship is the newest endowment to provide scholarship support for an outstanding science student having high academic ability and personal integrity, providing civic leadership within the community, and demonstrating financial need. Dr. J. Keith Sorenson (BS '45) created this scholarship to honor his father, also an alumnus, and a distinguished entomological researcher at USU. *The inaugural Sorenson Scholar is Seth Anthony Spanos, a senior biology major from Heber, Utah, with a 3.948 GPA.*

The Claude E. Zobell Endowed Scholarship was established by Dr. and Mrs. Claude Zobell to assist and encourage graduate students or outstanding seniors seeking degrees in biology, chemistry and biochemistry, geology, or physics. *This year's Zobell Scholar is Kevin V. Young, a PhD candidate in biology from Salt Lake City, Utah, holding a 3.75 GPA.*

As is demonstrated in these 11 scholarships, students in the College of Science are of outstanding caliber. The number of students who annually apply for scholarship consideration far exceeds the number of scholarships available. There is currently no greater need within the college than that of attracting additional scholarship support for the many deserving students pursuing degrees in science. "Scholarships are without a doubt one of the most rewarding gifts to the college," says Development Director Jerome Davies. "They have an enduring effect on individual lives."

The college's efforts to produce top scientists and to create a more scientifically literate society is a critical mission. Gifts to establish or further enhance scholarship opportunities for our students will provide the kind of support that they both need and deserve.

"Worthy students are drawn to financial support—there's no doubt about that," says Associate Dean of Undergraduate Affairs, Kandy Baumgardner. "Strong financial aid packages mean a strong college." ♦

1999 Calendar of Events

January	7, 8	Aggie Fest 435/797-2055
February	9	College of Science spring coffee break 435/797-2478
	15-27	Alumni travel, Panama Canal Cruise 435/797-2055
March	8	Founders Day recognition on campus 435/797-2055
	10	Founders Day celebration in Salt Lake City with Sunburst Singers 435/797-2055
April	21	Senior Send-off 435/797-2055
	23	College of Science awards program 435/797-2478
	30	A-Day 435/797-2055
May	7-8	Commencement
		Overview of Commencement activities 435/797-2055
		College of Science reception 435/797-2478

In Memoriam:



L. Rex Megill

L. Rex Megill

L. Rex Megill, who served for many years as a senior scientist and director of the Center for Atmospheric and Space Sciences at Utah State University, died on 22 October 1998.

Born on 5 July 1925 in Pottsdam, Ohio, Dr. Megill made contributions that will continue for years at Utah State

University and in the lives of his students. He joined the university on a part-time basis in 1969 and became fulltime in 1971. His unusual ability to draw together researchers in many fields and from many nations led to more than 60 publications and a respected international reputation.

In 1974-75, Dr. Megill was program director of Aeronomy and Atmospheric Sciences at the National Science Foundation. He received two distinguished authorship awards at the National Bureau of Standards and a silver medal for meritorious service from the Department of Commerce.

Dr. Megill was instrumental in the development of a student scholarship program utilizing the NASA Get Away Special Program. As a result, USU has flown more shuttle experiments than any other organization. Copied by at least 26 other universities, this program offers research opportunities to students across the nation.

Long interested in commercial applications of scientific discoveries, Dr. Megill served as chairman of the USU patent committee and played an important role in the formation of the USU Research Park. At the time of his death, he was a consultant for the Final Analysis Company of Washington, DC.

Perhaps Dr. Megill's greatest legacy is the large number of USU graduates who have benefitted from his enthusiastic, inspirational, and challenging teaching. Donations in his name can be made to the USU Get Away Special Program, College of Science, 4400 Old Main Hill, Logan UT, 84322-4400. ♦



Clyde T. Hardy

Clyde T. Hardy

Clyde T. Hardy, emeritus professor of the Department of Geology, died 13 October 1998 at Logan Regional Hospital following a long illness. He was 77.

Born in Fremont, Ohio, Dr. Hardy earned a BA in geology at Ohio State University. He served in the United

States Army Air Corps from 1943 to 1946. He was awarded an MS in 1948 and a PhD in 1949 by Ohio State University. In 1950 he was hired as an assistant professor of geology by Utah Agricultural College, was promoted to associate professor in 1954, and named professor and acting head of the Department of Geology in 1967. He served as head of the department from 1968 to 1982.

A dedicated teacher, Dr. Hardy directed 27 master's candidates in their research. His interests in geology were broad and included structural geology, regional geology and engineering geology. He retired from USU in 1986.

Dr. Hardy was a fellow of the Geological Society of America and the Meteoritical Society, a charter member and past president of the Utah Geological Society, and a member of the Society of Economic Paleontologists and Mineralogists, the American Association of Petroleum Geologists, the Wyoming Geological Association, and Sigma Xi.

A tribute to Dr. Hardy was hosted by the USU Department of Geology on 5 November 1998. Donations in his memory can be made to the Clyde T. Hardy Scholarship Endowment, Department of Geology, Utah State University, College of Science, 4400 Old Main Hill, Logan UT 84322-4400. ♦

College Gratefully Thanks Donors

With our 1998-99 Annual Fund Campaign underway, this issue of *Insights* is an appropriate time and place to acknowledge the contributions of nearly 600 donors to the College of Science during the fiscal year ending 30 June 1998. Alumni, friends, foundations, corporations, faculty, and staff have all contributed generously during the past year. Every department in the college, numerous scholarships, and a number of special programs and projects have all benefited from your contributions.

Your support is critical each year. With the growing number of science majors in our college fast approaching 2,000, your contributions help our students to be successful and competitive in an ever-changing world. Thank you for enhancing the college's commitment to excellence in science education and research through your support.

In this section of *Insights*, you will find a postage-paid reply envelope to request additional information about supporting the College of Science. You may also contact our development director, Jerome Davies, at (435)797-3510, jeromed@cc.usu.edu or at the College of Science, 4400 Old Main Hill, Logan, UT 84332-4400. We look forward to hearing from you.

The following individuals, corporations, and foundations made generous gifts benefiting the College of Science in fiscal year 1998 (July 1, 1997 - June 30, 1998). Every attempt was made to accurately cite each donor. Please notify the College of Science if an error or omission has occurred.

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H. Dean & Nedra Bowles	Orange, CA	Robert Gubernick	Petersburg, AK	Jerrold N. Mayer	Highlands Ranch, CO	Mauxy W. Schooff	Papillion, NE
Teresa Rogers Boyack	Salt Lake City, UT	Donald & Tari Gullbrandsen	Iola, WI	Patrick H. McClellan	Fremont, CA	Clinton K. Searle	Brigham City, UT
Ralph Dean Briscoe	Providence, UT	Darrel J. Gunderson	Waupun, WI	Larry McDonald	Carson City, NV	John Sexton	Lakewood, OH
Duane & Marla Brown	Brigham City, UT	Douglas & Polly Habliston	Eugene, OR	Michael & Susan McDonald	Erda, UT	Shannon Shaffer	Logan, UT
Wesley Brent Brown	Downey, ID	Daron & Karen Haddock	Morgan, UT	Gordon M. McEwen	Orem, UT	Byron T. Shaw	Sarasota, FL
Floyd & Joan Bunderson	Montpelier, ID	Ross S. Hadfield	Meridian, ID	Steven & Shauna McKay	Spanish Fork, UT	Amanda Shearer-Fullerton	Montverde, FL
Gary J. Buterbaugh	Mechanicsburg, PA	Heidi K. Hadley	Salt Lake City, UT	Steven Robert Mendive	Troy, MT	Harold & Ann Sherwin	Clearfield, UT
Lori Nelson Byer	San Rafael, CA	James W. Haefner	Logan, UT	Christon & Kathleen Merkle	Layton, UT	Richard D. Sidwell	Riverside, CA
Heidi Campbell	Ann Arbor, MI	Richard Burke Hafen	Saint George, UT	Rodney W. Merrell	Tremonton, UT	Donald E. Skabelund	Albuquerque, NM
Douglas Cannell	Roanoke, VA	Lyle A. Hale	Bountiful, UT	Darwin & Elizabeth Merrill	Williston, VT	Mary Jane Skelton	Pasco, WA
Kyle R. Cannon	South Weber, UT	W. Vard & Antoinette D. Hall	Bountiful, UT	David W. Miles	Smithfield, UT	Donald & Georgia Smee	Frederick, MD
N. Scott & Claudia Cannon	Kennewick, WA	Robert G. & Claire Hammond	Logan, UT	Jack & Fauntella Miller	Salmon, ID	Clyde F. & Crystle Smith	Raleigh, NC
Scott R. Cannon	Logan, UT	Robert P. Hanrahan	Layton, UT	James H. Miller	Brigham City, UT	Deano Ray Smith	Ann Arbor, MI
Earl L. & Karen Capps	Idaho Falls, ID	Afton M. Hansen	Mayfield, UT	Thomas R. Miller	Allison Park, PA	Graham Smith	Syracuse, UT
Kenneth & Paula Carman	Layton, UT	Rulan & Mary Hansen	Decorah, IA	Larry K. Millward	Kaysville, UT	J. Scott Smith	Riverton, WY
Maurice Wood Carter	Corinne, UT	Larry Dean Haramoto	Los Angeles, CA	Michael E. Minock	Oshkosh, WI	Linda Smith	Logan, UT
Mary Lynn Allred Case	Farmington, UT	Roger & Carole Harrison	Orem, UT	Joel M. Molyneux	Winnebago, MN	Cristine C. Sosa	Lewiston, UT
Rex & Janette Case	Sandy, UT	E. Blake & LuAnn Hart	Aiken, SC	Loretta M. Monk	Fayetteville, NC	Earl P. Spencer	Bountiful, UT
Don L. Chadwick	Ogden, UT	Philip J. Hart	Provo, UT	Kent & Ann Morrison	Hyrum, UT	Deborah J. Stebbing	Salt Lake City, UT
Robert & Claire Chadwick	Apex, NC	Marty R. Haslam	Layton, UT	Paul E. & Lois Moser	Boise, ID	Noel & Kathy Stibor	Afton, WY
Heng-Da Cheng	Logan, UT	Don L. & Betty Healey	Denver, CO	Collin J. Moss	Tucson, AZ	Tommy J. Stokes	Tremonton, UT
Chevron USA	Concord, CA	John O. Heggeness	Reno, NV	Richard Mueller & Susan Durham	North Logan, UT	Brent Mc Garay Stout	Rigby, ID
Lynette Chidester	American Fork, UT	Alan & Joy Hermansen	Santee, CA	Thomas F. & Arshia Mullen	Coeur d'Alene, ID	Jin Su	Orem, UT
Layne & Heidi Christensen	Farmington, UT	Larry Eugene Hibbert	Sugar City, ID	Wallace & Pauline Murdoch	Carlisle, PA	Geri J. Sullivan	Livingston, MT
Theron W. Class	Grand Junction, CO	David & Barbara Hill	Casper, WY	Eric Nelson	Benton City, WA	Van Alan Sutherland	Salt Lake City, UT
George B. Clay	Landenberg, PA	Teana P. Hillyard	Logan, UT	Newmont Gold Company	Denver, CO	Mark Edward Swanson	Saranac Lake, NY
Stephen W. Clyde	Hyde Park, UT	Ronald J. Hirko	Auburn, AL	James F. Nichols	Quincy, IL	Alan P. Sweide	Elko, NV
Marvin William Conley	Lamoille, NV	Daris W. Howard	Saint Anthony, ID	J. Ryan Nielson	Rexburg, ID	John B. Syverud	Saint Paul, MN
Hugh Mabee Cooke	Stockton, CA	J. Mark & Laura Huffman	San Antonio, TX	Marianne Nimah	Liverpool, NY	Suzanne B. Tave	Boise, ID
John & Becky Cooper	Boise, ID	James David Hulse	Lincoln, NE	Roger & Nan Noble	Muncie, IN	Allen Gary Taylor	Stevens Point, WI
Wimbor & Gary Cooper	Las Vegas, NV	Michael H. Hunsaker	Tremonton, UT	Novartis	Boise, ID	Anne K. Temte	Wenatchee, WA
Corning Glass Works Foundation	Corning, NY	Carl Johanson Hurst	Draper, UT	Robert C. Nutt	Orcas, WA	Shazelle Terry	American Fork, UT
John Aldon Cox	Allenton, WI	Larry Hyatt	Helper, UT	Norlene Okawa-Jee	Farmington, UT	Ronald Kay Tew	Richfield, UT
Stephen R. Crook	Middleburgh, NY	Howard Percy Irvin	Salt Lake City, UT	Forrest & Charlene Oliverson	San Antonio, TX	Jeffery L. Theurer	Richmond, UT
Daniel & Danielle Cummings	Bountiful, UT	Garth A. James	Provo, UT	Paul Raymond Olsen	Spanish Fork, UT	Kenneth M. Thompson	Kennewick, WA
Bruce McGurk & Janette Cushman	Orinda, CA	Jordan Jensen	West Lafayette, IN	David J. Osborn	Spokane, WA	Thomas & Karma Thomson	Garden Grove, CA
Jim W. Dahl	Murray, UT	Marcus Martin Jensen	Provo, UT	Ned A. Packer	West Valley City, UT	Brian F. Thornley	Logan, UT
Harry & Charla Danforth	Severn, MD	Robert H. Jensen	Perry, UT	Peggy Patton	Vernal, UT	James & Susan Till	Kalispell, MT
Brent & Ellen Davis	Lancaster, PA	Karen Isakson Jepperson	Sioux Falls, SD	Dale Gilbert Pearson	Saint Paul, MN	Drew Tillitt	Logan, UT
Craig & Susan Davis	Blackfoot, ID	Douglas A. & Shauna Johnson	Logan, UT	Lee H. Pearson	Bear River City, UT	Kenneth S. Todd Jr.	Bozeman, MT
Jeffery Davis	Belchertown, MA	Glen & Carmo Johnson	North Salt Lake, UT	Gordon & Cindy Pedersen	Cedar Hills, UT	Glen & Patricia Trostle	Logan, UT
Ralph E. Dewey	Apex, NC	J. Darold & Marna Johnson	Salt Lake City, UT	Alan L. Peet	Fairfield, CA	Shayne Tueller	West Point, UT
Kendra S. Dinerstein	Hyde Park, UT	Sherman & Janis Johnson	Ogden, UT	Ted & Kathleen Perry	Livermore, CA	Juan J. Tur	Miami, FL
Nelson T. Dinerstein	Hyde Park, UT	Walter B. Johnson	Garland, UT	Michael & Arlene Petersen	Providence, UT	Edrick Carl Twitchell	Saint George, UT
Rupert E. Dobesh	South Jordan, UT	Corrinne Jones	Idaho Falls, ID	Charles G. Peterson	Bountiful, UT	Douglas & Wendy Wagstaff	Salt Lake City, UT
Robert Eldon Dolph Jr.	Eugene, OR	Robert Errol Jones	Park City, UT	Daryl & Mildred Peterson	Salt Lake City, UT	Chiouyun Lo Wang	Lake Forest, CA
Mark & Diana DuBois	Elko, NV	Michael V. Keeling	Olympia, WA	Warren & Barbara Phillips	Paradise, UT	Mike & Carolee Wangsgaard	Manhattan, KS
R. Durrell & Adele Duce	Mesa, AZ	William P. & Cheryl C. Kemp	Bozeman, MT	Judy Wankier Pitcher	Valrico, FL	Clifton Jay Warner	Morgan Hill, CA
Brent R. & Sally Dyches	Moroni, UT	Jeff & Diana King	Logan, UT	Michael V. Plummer	Searcy, AR	Daniel W. & Claire M. Watson	Logan, UT
James S. & Shelley Dyer	Logan, UT	David Lee Klopotek	Sobieski, WI	Gregory & Stephanie Podgorski	Logan, UT	Toni Lee Davis Watts	Las Vegas, NV
James & Deann Dykes	Etna, NH	Kathleen D. Knierim	Lafayette, LA	David Merritt Poulson	Logan, UT	Christine Webb	Centerville, UT
Donna J. Eckburg	Logan, UT	Byron & Virginia L. Knutsen	Malad City, ID	Lynn H. Pribble	Las Vegas, NV	Don Lee Weeden	West Jordan, UT
Alan & Angela Edwards	Bountiful, UT	James F. Kohler	Bountiful, UT	Rex J. & Anne Prosser	Houston, TX	Wendell L. Weeks	Ogden, UT
Richard & Joan Egan	San Diego, CA	Marden Reed Kohler	Pasco, WA	W. John Raitt	Hyde Park, UT	David & Sue Weierman	Taylorsville, UT
William & Kathleen Egan	Arlino, ID	Janie E. Konakis	Reno, NV	David Ramos	Tremonton, UT	Sally Welling	Sandy, UT
David E. Egbert	Jerome, ID	Debra J. Krikorian	Frederick, MD	Michael R. Rampton	Westlake Village, CA	W. Howard Westhara	Beaverton, OR
Larre Nyman Egbert	Smithfield, UT	Brad R. Kropp & M. Grilley	Logan, UT	Craig & Ann Rasmussen	Los Alamos, NM	Dallas L. Wheat	Bowling Green, KY
Ralph & Wendy Ellis	Ogden, UT	Terry C. Lamoreaux	West Jordan, UT	Stephanie Reading	Bountiful, UT	Thomas D. Wilkerson	Richmond, UT
Joseph & Phyllis Everton	Bountiful, UT	James Gordon Laws	Tremonton, UT	Nelson W. Rebert	APD, AP	Charles Edward Wilson	Las Vegas, NV
Alan J. Feltz	Lawrence, KS	Marc Lazer	Fall River, MA	Antonio & Shelby Redondo	Los Alamos, NM	Bert W. Winterton	Fruit Heights, UT
Donald W. Fiesinger	Logan, UT	Kenneth Byron Layton	Littleton, CO	Kenneth R. Rees Jr.	North Las Vegas, NV	David M. Wonnacott	West Chester, PA
Linda Hansen Finchum	Logan, UT	Rita Elaine Leicester	Riverton, WY	Robert & Suzanne Reese	Kaysville, UT	Carol W. Wood	Corvallis, OR
James R. Fisher	Ogden, UT	Douglas & Alice Lemon	Richland, WA	John Paul Reeves	Reno, NV	William J. & Lois Worlton	Salt Lake City, UT
Nicholas & Susan Flann	Smithfield, UT	M. William Lensch	Portland, OR	David Reif	Lunenburg, MA	Jan E. Wynn	Mapleton, UT
John A. Flores II	Rio Rancho, NM	Robert James Leonard	Soap Lake, WA	David J. Remondini	Silver Spring, MD	Ming Yin	Columbia, SC
Bryan E. Forrest	Whittier, CA	Daniel Robert Leske	Battle Creek, MI	Ronald Dee Rex	Brigham City, UT	Daniel Young	Sandy, UT
Robert R. & Jennett Forsberg	Rocklin, CA	Michael Larry Levine	Oxford, PA	John & Karen Rice	Madison, VA	Glen & Linda Young	Salt Lake City, UT
Walter Fox	Martin, GA	David & Sheila Lewis	Brigham City, UT	Scott L. & Beverly Rice	Irvine, CA	Matthew Young	Boise, ID
Thomas Froominckx	Leavenworth, KS	Michael R. & Karen Liechty	Providence, UT	Weldon T. Richardson	Jackson, WY	Nabil Youssef & Kandy Baumgardner	Logan, UT
James D. Fry	Logan, UT	V. Gordon Lind	Hyde Park, UT	Donald & Lynnette Richins	Orem, UT	Kamyar A. Zahedi	Cincinnati, OH
Blair & Karen Fujimoto	Logan, UT	Denton C. Linton	Salt Lake City, UT	D. Mark & Pamela Riffe	Providence, UT	Jianping Zhang	Logan, UT
Clarence J. & Joan Funk	San Diego, CA	Nettie Linton	Preston, ID	Harriette M. Roadman	Murrysville, PA	Kun Yan Zhu	Manhattan, KS
Marcie Galloway	Benson, UT	Duane Loveland	Logan, UT	David R. Robb	Huber, NC	Kenneth Zobel	Cedar City, UT

College of Science SPRING COFFEE BREAK



Administrative staff, Biotech Center and College of Science



Members of the Department of Biology administrative staff



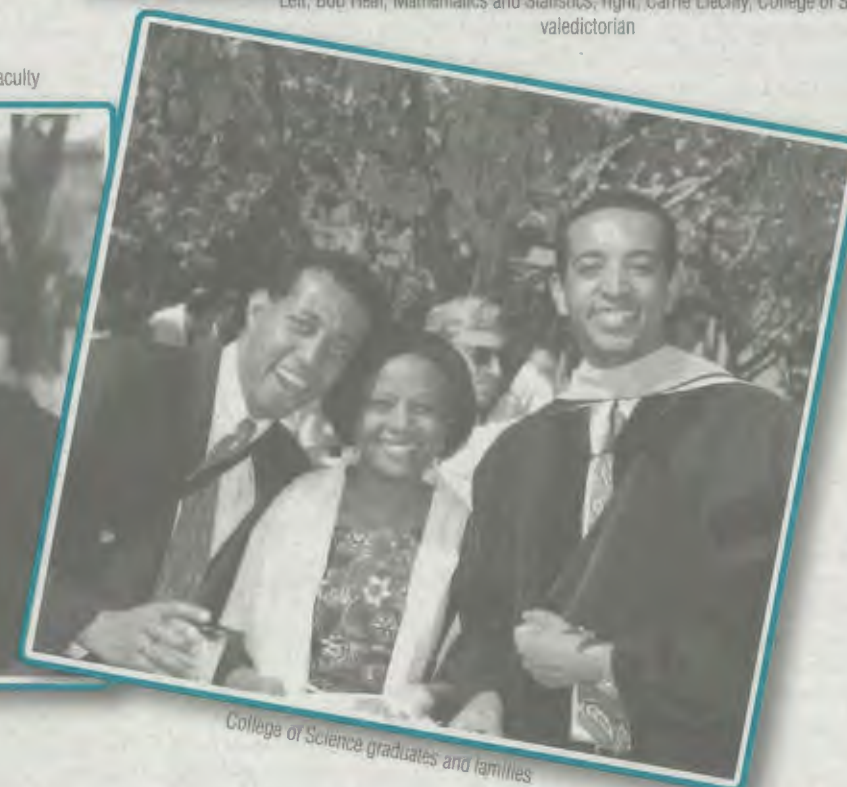
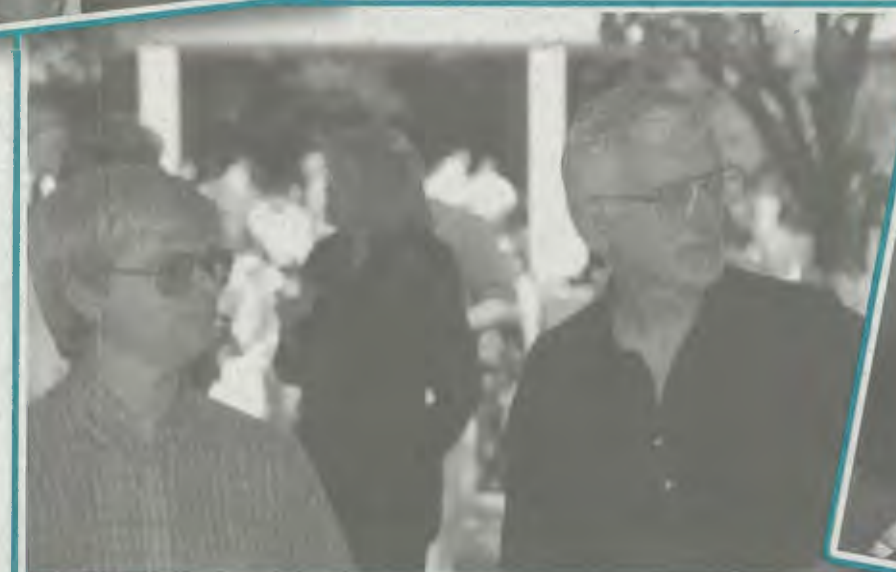
Left, Bob Heal, Mathematics and Statistics; right, Carrie Lechly, College of Science valedictorian



Left to right: W. John Raitt, Physics and Center for Atmospheric & Space Sciences; Robert W. Schunk, Center for Atmospheric & Space Sciences; Mary Cleave, College of Science alumna and commencement speaker; and Dean Jim MacMahon

Left to right: James A. Gessaman, Space Dynamics Lab; Susanne U. Janecke, Geology; Dean Jim MacMahon; and Bradley Davidson, Chemistry and Biochemistry

Left, JR Dennison, and right, David Peak, Physics Faculty



College of Science graduates and families



College of Science graduates and families

College of Science GRADUATION RECEPTION

College of Science Alumna Delivers 105th Annual Commencement Address at USU



105th Annual Commencement Ceremony

Mary Cleave, two-time flight crew member on NASA *Atlantis*, winner of five NASA medals, and USU College of Science alumna (MS microbial ecology 1975, PhD civil and environmental engineering 1979), delivered the 105th Commencement

fish; studies of the effects of increased salinity and oil shale development on freshwater phytoplankton productivity; development of the surface impoundment assessment document and computer program (FORTRAN) for current and future processing of data from surface impoundments in Utah; establishing an algal bioassay center; and developing a workshop for bioassay techniques for the Intermountain West. In conjunction with her efforts, she has published scientific papers.

Selected as an astronaut in May 1980, Dr. Cleave started working at the Johnson Space Center. She has served as flight engineer, primary Remote Manipulator System operator, and mission specialist on the inflight maintenance crew aboard *Atlantis* during flights in November 1985 and May 1989.

Currently, Dr. Cleave is working on Earth observations at NASA's Goddard Space Flight Center. Her work reflects her concerns, based on observations during her two space flights, that human activity is changing the surface of Earth too rapidly. She is the project manager for the Sea-viewing Wide Field of View Sensor, an ocean color sensor that is monitoring global marine chlorophyll *a* concentration.

The following text of her address reflects her concerns, challenging USU graduates to reconcile the benefits and challenges of technology.

address at USU, and attended the College of Science graduation ceremony.

Dr. Cleave's career includes research on the productivity of the algal component of cold desert soil crusts in the Great Basin Desert south of Snowville, Utah; research on algal removal with intermittent sand filtration and prediction of minimum river flow necessary to maintain certain game

Reprint from 6 June 1998 Commencement Address:

Utah State University faculty, staff, students, family, friends, my fellow alumni, and in particular, the graduates we are here to honor today, it is a distinct pleasure for me to return here to address you on this very special day, the 105th commencement exercise at USU, the day when these graduates will be launching their careers in the spirit of our Aggie traditions. Taking these traditions all over the planet, and for some, off the planet. The tradition of land-grant schools, that we embody, is one we can truly be proud of. Although you are certainly aware of your responsibilities as a graduate of a land-grant institution, I would like to take this opportunity to refresh your memory.

In the early 1800s, university education was available only to the privileged few who could afford tuition at private universities. President Lincoln signed the Morrill Act, which gave 10,000 acres of federal land to each state with which to establish public universities. This was the origin of land-grant schools, 136 years ago. These schools educate formally in classrooms and informally through extension services, and conduct research for the benefit of civilization. Land-grant schools promote lifelong learning, and that is what is required of an ever greater portion of our population as technology advances. As Aggies, we are trained to help civilization benefit from our technological advances. That is quite a responsibility considering how very deeply technological advances are affecting all of us and the planet we live on. Our educations are subsidized by taxpayers for the greater good of our civilization. You may want to reflect on that as you make decisions in your life and also when you fill out your first working tax return and suffer what some refer to as "sticker shock."

Graduating here today, you have reached a very important goal. You have demonstrated that you can set goals and attain them. It is very important to have goals, but be careful not to let them limit your vision. The world is changing very rapidly, and it appears that the rate of change is accelerating. This would make new opportunities available that may not have been factored into your original set of goals. That will take reassessing the situation and changing your goals to match the current set of conditions. When I was young, all astronauts were male test pilots and I never would have set a goal of flying in space. However, the world changed, and my goals changed. Flying was a favorite hobby of mine from the age of 14. I soloed at 16 and got a private pilot's license at 17, but it never occurred to me that I could be a pilot. Before graduation from Colorado State in 1969, I aspired to a career in aviation. I applied for a job as an airline stewardess, but my height was two inches too short. One decade later, I was accepted into astronaut training. Stay flexible

and keep looking for those opportunities. It makes life a lot more fun.

In order to stay flexible, you need to leave some margin in your life. Normal operations in an airplane or spaceship have a workload that you can handle, but have a thing or two go wrong and it is very easy to get behind the power curve. All of a sudden, you are buried under a huge work load. You train really hard to handle those times. There are so many opportunities in life you need to be careful not to get behind the power curve, because each of you will have a thing or two go wrong sometime in the future. With the amount of credit being offered, it is easy to get into debt problems, when that credit should really be saved for the unexpected expense, the fender bender, or the lost valuable. Time margins need to be protected as well, or else you may lose the time to do the little things in life that end up being really important, like time to volunteer. You will need to have enough financial and time margins to fly out of problems, so think about each commitment you make very carefully.

One commitment we all need to make is to honesty. Each of you will need to be a leader at one time or another. You will be setting the example. You will be leading by example. If any of that baggage you are carrying along isn't honest, it will probably catch up with you. This information age facilitates greater accountability for our actions, as our statistics are collected, saved, and provided on-line. Some states are now increasing accountability for child support payments by using driver license records, for example. You may need a security clearance or a confirmation hearing some day. Honesty is the best policy.

One thing that spaceflight does for you is to shrink the planet. You go around Earth every 1-1/2 hours. It takes 7-1/2 minutes to fly across the US. It gives exercise a whole new meaning. 7-1/2 minutes of running on the treadmill and you can claim to have run across the US. But it also makes you understand how small our planet is. In the four years between my two space flights, I could very easily see the changes we humans are making on the surface of this planet. That rate of change is very fast, too fast for us to really understand the potential impact those changes could have over the long term to our existence on this planet. Deforestation, erosion, dust storms, and smoke from large fires are all very evident from low Earth orbit. Cities look like big gray smudges, and these smudges are getting bigger. We are using resources like trees, water, soil, and clean air at a faster rate than they are being replaced naturally. We need to think about how many humans on the planet are too many, and hopefully find a solution that is humane. Do we want a "gourmet" or "gourmand" existence on this planet? You will all help decide. ♦

College of Science Awards Ceremony

These candid chronicles the 1998 College of Science Awards ceremony, and, indeed, all candid photographs used in *Insights*, were taken by Gene Underwood, professor emeritus of the Department of Mathematics and Statistics. The man behind the camera is highly valued by the college both personally and for his talent, his dedication, and his good humored attendance at every College of Science ceremony and event. He is living proof that science and art are closely related.



Left to right: Nancy Sorenson, Dr. J. Keith Sorenson, Jean (Sorenson) Mack, and Seth Anthony Spanos, 1998 recipient of the Charles J. Sorenson Scholarship



Dean Jim MacMahon and Adele Cutler, College of Science Teacher of the Year



Carrie Liechty, College of Science Valedictorian and Bob Heal, acting head, Mathematics and Statistics Department and valedictorian escort

New Faculty Join College of Science



Lisa M. Berreau

Lisa M. Berreau, assistant professor of chemistry in the Department of Chemistry and Biochemistry, holds a PhD in inorganic chemistry from Iowa State University. She comes to Utah State University from the University of Minnesota, where she recently completed an NIH National Research Service Fellowship. Her research there was directed at understanding how hydrogen bonding interactions influence the chemistry of copper centers that interact with dioxygen in metallo-proteins and -enzymes.

At USU, Berreau is pursuing research in bioinorganic, inorganic, and organometallic chemistry. In the bioinorganic area, her research is directed at gaining an understanding of the role of biological metal centers in antibiotic resistance through the synthesis of small molecule model complexes. ♦



Mourad Tighiouart

Mourad Tighiouart joined the Department of Mathematics and Statistics as an assistant professor. He holds a PhD in statistics from Florida State University. He has a special interest in nonparametric techniques, Bayesian inference, spatial statistics and Markov chain Monte Carlo simulations. His research interest is primarily in nonparametric Bayesian approach to survival analysis. Due to the recent development in MCMC techniques, flexible models that have a rich Bayesian structure have been proposed in the past few years.

Tighiouart is working on models linking the predictors to the hazard or the failure time in a relatively smooth fashion and investigating new techniques for model fitting and model selection. ♦

1998 College of Science Awards



James Cangelosi

College of Science Advisor of the Year

James Cangelosi was named College of Science Advisor of the Year. Cangelosi joined the USU faculty twelve years ago as a psychology teacher. Four years later, he added math classes to his teaching load, and combined these new duties with advising.

Cangelosi's main research is in psychometrics; his books deal with this area as well as with behavioral management and how to teach math. Currently, he is working on the BioMathLab project to develop teaching techniques which integrate mathematics with biology, allowing students to create models of biological systems.

Eight years of advising students have clarified Cangelosi's theory of what makes a good advisor. A good advisor listens actively, acknowledging the validity of each student's experience, he says. "I can't help if I contradict what a student says. I listen, then respond to the concern expressed by the student. Then I act as a link to the information the students need."

The students Cangelosi serves praise his focus on their needs. "I never feel like he's judging me as a person," says one. "He really listens to me, and his advice answers the questions I ask, telling me what I want to know, not what he thinks I should hear."



Zhi-Qiang Wang

College of Science Researcher of the Year

Zhi-Qiang Wang, professor in the Mathematics and Statistics Department, was named Researcher of the Year. He has been working in the field of nonlinear elliptic equations and Hamiltonian systems for the past ten years. His areas of concentration include boundary value problems in elliptic equations, nonlinear Schrodinger equations, singularly perturbed problems, and periodic and homoclinic orbits for Hamiltonian systems. His interests include solving concrete problems by developing new mathematical methods in the area of calculus variations. Wang's current work is supported by a three-year NSF grant.

"Dr. Wang has published more than 40 refereed papers, many of them quite long by mathematical standards, and the overall quality of the journals is high," writes former Department Head Jerry Ridenhour. "Furthermore," he continues, "he received his PhD in 1986, so all this has been accomplished in only a dozen years. Indeed, a careful look at his record indicates that the pace of his research continues to accelerate."

"Deepening my research work in some key projects has established for me a very solid foundation in a whole field of future work, opening doors to new problems," says Wang. "Doing so, I could develop my own framework which in some sense is unique and distinctive from others in the field."



Adele Cutler

College of Science Teacher of the Year

Teacher of the Year Adele Cutler, associate professor in the Mathematics and Statistics Department, receives consistently high marks from her students, who value her careful preparation, mastery of material, contagious enthusiasm, and dedication to student success. Teaching students to do their very best is a challenge all teachers face, but teaching statistics is a special challenge, says Cutler. She says one of her students told her "You almost made it interesting." Cutler sees a "personal challenge to remove the qualifier from this statement for every student I teach."

"I think Adele is a wonderful teacher!" writes a former undergraduate student. "It's refreshing to have a teacher that really cares whether or not I (or the class) understands and learns the material." A graduate student calls Cutler "a very impressive teacher . . . When she taught the class, she taught us not only the materials but also the motivation behind them."

"Great teaching requires . . . both the ability to challenge the students and to inspire them," says Cutler. "Both are necessary if we challenge without inspiring, students feel pushed . . . If we inspire without challenging, only the most self-motivated students will reach their full potential."



Jeffrey Allen

College of Science Graduate Student Researcher of the Year

Jeffrey Allen has a bachelor of science in molecular biology from the University of Wisconsin at Madison, and is currently working toward a PhD in biochemistry at USU. He was awarded the George H. and Billie Bush Emert Scholarship and the E.L. Inez Waldron Biotechnology Award in 1997. The most recent of Allen's many publications is "Characterization of Epoxide Carboxylase Activity in Cell Extracts of *Nocardia Corallina* B278" printed in the *Journal of Bacteriology*. The article was chosen for the Journal Highlights section of *ASM News*, the monthly newsletter of the American Society of Microbiology.

Looking toward the future, Allen plans to complete his doctorate within a year, then work in private industry.



Jared R. Burch

College of Science Graduate Student Teacher of the Year

Jared R. Burch has been a teaching assistant in the Department of Mathematics and Statistics since September 1996. His focus as an instructor is to prepare students for success beyond their academic careers. "I realize that a great deal of my students' success is dependent on my own ability to explain mathematical concepts," says Burch. "I try to achieve this by using clear, telling examples, strong life applications, and graphical methods which help solidify the concepts being taught."

Burch believes his success in the classroom comes from his passion for teaching, his willingness to connect with the student, and his ability to explain and make sense out of math.



Carrie Liechty

College of Science Valedictorian

Carrie Liechty's selection as valedictorian caps an outstanding academic career at the College of Science. Winner of the Superior Student Scholarship, the Joe and Carletta Elich Scholarship, the Sharon Lee Gardner Ellis Memorial Scholarship, and a Gold Key National Honor Society Scholarship. She was also named outstanding student in mathematics education and is a member of the Honor Society of Phi Kappa Phi.

She has earned a bachelor of science in mathematics and statistics, a physics teaching minor, and a Utah secondary education teaching certificate. Before her spring 1998 graduation, Liechty had already taught recitation sessions for a business statistics course at USU and worked as a substitute teacher for the Cache County School District.



Nanette Jensen

College of Science Scholar of the Year

Scholar of the Year Nanette Jensen was awarded a BS in computer science with an emphasis in information systems. A musician since her years in elementary school, Jensen minored in music. She hadn't worked with computers until she began studying them at USU, and she credits her computer science professors with engaging her interest in the field. She is currently working as a firmware programmer in the laser jet printer division at Hewlett-Packard in Boise, Idaho. ♦

Alumnet Responses

Many of the responses we have received to our readers' survey have cited Alumnet Responses as our readers' favorite part of *Insights*. Thank you for your continued responses to Alumnet.

1930s

Robert J. Westfall (BS 1935, Chemistry) was awarded an MS from Michigan State in 1937 and a PhD from Purdue in 1947. He has retired from the former Armour Pharmaceutical Company (now Centeon Inc.) and is an active gardener. He has been studying the literature about ADHD and other brain disorders and seeks other professionals to correspond with about his studies.

1940s

Don W. Gay (BS 1942, Chemistry/Biochemistry) spent his thirty-five-year career as a microchemist at DuPont. There he engaged in research, development, and sales of textile fibers and served as marketing manager for DuPont in Geneva, Switzerland. Following his retirement, he has consulted in textile fibers. He is a collector of English porcelain.

1950s

Robert R. Forsberg (BS 1953, Geology) retired in 1994. His professional career spanned thirteen years as a water resources engineer for the California Department of Water Resources and twenty-four years as a valuation engineer for the California Board of Equalization. He is a retired lieutenant colonel in the United States Air Force Reserve, a member of ASCE and ASA, and was named to *Who's Who in California* and *Who's Who in the West*. He and his wife, Jennett, have two children and eight grandchildren.

Paul A. Larson (BS 1953, Chemistry) is a research chemist retired from the Dow Chemical Company. He is married with four children. His current interests include sailing and playing the stock market via the internet. He has taught at a local junior college and occasionally consults in plastics in electronics.

1960s

Howard S. Lewis (BS 1967, Zoology) was awarded an MS from the University of Wisconsin, Madison. An environmental manager with R.T. Freeport Indonesia, he worked in Irran Jaya, Indonesia, for four-and-a-half years. He was recently transferred to the Jakarta office to assume responsibility as chief governmental liaison in environment and permitting issues.

Gordon D. Waller (MS 1967; PhD 1973, Entomology) is an entomologist with the U.S. Department of Agriculture.

Roy J. Rushing (BS 1969, Geology) is an engineering geologist with PetraGeotechnical, Inc. He is living in Nevada.

1970s

Dan W. Nielson (BS 1971, Computer Science) retired in 1991 from the United States Air Force with the rank of lieutenant colonel. During his military career, he served in Europe and Korea as a flight instructor in F-4s and was one of the initial cadre of F-16 pilots and flight instructors at Hill AFB. He also served at the Pentagon as an operations analyst (Operations Research) for USAF Studies and Analysis. He is currently a pilot for Delta Airlines and lives with his wife of twenty-eight years, **Carol Holindrake** (BA 1971, English Education), in Utah. He is an avid gardener and has just completed the Master Gardener program via USU Extension.

Scott K. Brown (BS 1974, Computer Science) was awarded an MBA by Santa Clara in 1989. He is currently senior vice president of product development at Computer Curriculum Corporation in California.

Michael Stolpe (BS 1978, Biology) is an emergency medicine physician in Wyoming. He has recently accepted a full-time staff position at Campbell County Hospital.

1980s

Henry P. Nowak (MS 1981, Biochemistry) was awarded an MBA and a JD by Florida State University in 1986. He was recently appointed general counsel and vice president of intellectual property at Paradigm Genetics in North Carolina. Paradigm is involved in the development of agricultural products using functional genomics and recombinant DNA technology.

Clifford G. Wallman (BS 1985, Geology) was awarded an MBA by the University of California, Berkeley, in 1993. His ten years as a hydrogeologist and environmental consultant have led to a career change. He is currently the owner and general manager of Diamond Sharp, Inc., providing restaurant and food service supplies and service.

Joseph Sullivan (MS 1986, Biology/Ecology) was awarded a PhD by Virginia Tech in 1991. He is the principal in Ardea Consulting, specializing in risk assessment and wildlife toxicology, particularly in the effects of pesticides on birds. He is living in Pennsylvania.

Ruth Harvey (BS 1987, Mathematics/Physics, Philosophy) was awarded a PhD in 1995 by the University of Wisconsin, Madison, in materials science. She is currently living in Utah.

Jim Frankenfield (MS 1989, Physics; MS 1990, Mathematics) is a self-employed mountaineering guide and avalanche professional. He is the director of the CSAC avalanche center and lives in Salt Lake City, Utah.

Dave Walker (BS 1989, Chemistry) was awarded an MS in 1992 by the University of Utah. He is a process engineer designing new and optimizing existing processes for Union Carbide at the South Charleston Technical Center in South Charleston, West Virginia. He is married and has two step-children.

1990s

Julia Andersen (BS 1990, Physics) is a spacecraft engineer. She is with Allied Signal Technical Services, where she is a mission planner for Fara Ultra-violet Spectroscopic Explorer.

Ronald L. Whetman (MS 1990, Statistics) is an electronics engineer with the Ogden Air Logistics Center in Utah.

Leisa Thompson Refalo (BA 1992, Statistics) was awarded an MS in Computer Science by Colorado Technical University. She is currently a software engineer at MCI.

John W. Valberg (BS 1994, Medical Technology) is a medical technologist at Columbia Brigham City Community Hospital in Brigham City, Utah. He is married to USU alumna **Erin Simmons**. They have one child, a seven-month-old son.

Mahshid Asrari-Staheli (BS 1995, Public Health) was mistakenly referred to as "he" in the last issue of *Insights*. She is a third- (not first-) year dental student at Marquette University Dental School. Our apologies.

Don S. Hamilton (BS 1996, Geology) is a permit specialist for River Gas Corporation in Utah. He drafts federal drilling permits and land-use agreements and negotiates land acquisitions for coal bed methane development. He and his wife of three years recently built a new home on a ranch.

Jason Lott (BS 1997, Industrial Hygiene) is a consultant with ATL International. He is living in Maryland. ♦

Response to Call for Publications and Awards

Call for Alumni Announcements — Please submit by 1 February 1999.

We know many of you have published books or been awarded special honors. We encourage you to notify us either through the Alumnet Response form or via email at scido@cc.usu.edu. Our annual Publications, Awards, and Honors section will be published in the spring issue of Insights, and we would like to include your announcement. We would appreciate a book jacket for inclusion if you are announcing a publication.

Name: _____

Name While at USU: _____

Gender: _____

Email Address: _____

Telephone: _____

Occupation: _____

Company/Business: _____

Title/Position: _____

If Retired, Former Employer: _____

Professional/Personal Award(s) (Please include a text of the commendation, if any.)

Name of award: _____

Awarding organization: _____

Brief description: _____

Book Publication (Please include book jacket or cover if available)

Title: _____

Co-authors (if any): _____

Publisher: _____

Publication date: _____

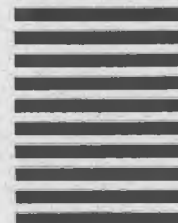
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A L U M N E T

Dear College of Science Alumni and Friends,

We always enjoy hearing from you and hope you will take a moment to complete and mail this alumni information form. Please note the postage-paid format—simply cut off this last page of the newsletter, fold along the lines marked on page 15, tape it shut, and drop it in the mail, or fax it to us at (435)797-3378. Or, email us at scido@cc.usu.edu.

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Insights, the alumni newsletter of Utah State University College of Science, is published twice a year. Its purpose is to inform alumni and friends of current events, projects, and changes happening within the college. The newsletter also provides a forum for alumni to follow one another's careers and professional development. This issue of Insights was produced under the direction of Sally McGovern, editor, and Colette Yates, project coordinator and editor. Contributors include Dean Jim MacMahon and Development Director Jerome Davies. Special thanks to Gene Underwood and Jonathan Hirschi for photographs, to Kandy Baumgardner and Paula Larsen at USU Editorial Services, and Watkins Printing.

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